Levels and factors	Article references [Linked to S3 Table]
INDIVIDUAL LEVEL	
Mother HIV positive status: Being HIV positive has influenced feeding choices and exclusivity across policy periods, mostly towards EFF but recently EBF: Fear of HIV transmission to the infant was discussed mostly around mixed feeding, although fears of any breastmilk were expressed consistently Knowledge about transmission risk in breastmilk and while on ART tended to be inaccurate, usually overestimating risk (except early on) Fear of disclosure through feeding method (formula and/or exclusivity), based on perceived community norms (see Community) Timing of HIV diagnosis	[2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 16, 17,19,20, 21, 23, 24, 25, 27, 28, 31] [4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 16, 17,19, 20, 21, 23, 25, 27, 28, 29, 31, 32, 34] [2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 17, 19, 20, 25, 27, 32]
Employment: The need to find work and/or go to work, resulted in formula feeds <i>Unemployment:</i> While generally supporting EBF, financial dependence also limited perceived choice	[2, 3, 4, 7, 9, 11, 22, 28, 29, 30, 31, 33] [1, 2, 3, 7, 11, 17, 22, 23,25]
Young age/Adolescent: Young mothers talked about having less power to decide on feeding choices (see also Household). Some age-specific barriers to EBF: <i>Return to school</i> , resulting in a shift to formula <i>Body image</i> , such as sagging breasts due to breastfeeding	[17,23] [2, 7, 23, 28, 31, 33] [2, 4, 23, 29]
Past feeding experiences: Depending on the outcomes of experiences, this could influence current choices	[3, 4, 5, 6, 7, 12, 13, 29, 30, 34]
Breastfeeding knowledge: Accurate knowledge assisted EBF, particularly: <i>Milk sufficiency</i> : Knowing that breastmilk was enough for an infant <i>Duration</i> : Knowing how long to breastfeed exclusively <i>Superiority</i> : Being able to cite the superiority of breastmilk over formula <i>Low cost</i> : Avoidance of formula costs supported breastfeeding choice	[1, 2, 4, 5, 6, 7, 8, 9, 11, 12, 19, 20] [4, 5, 6, 11, 12, 14, 15, 19, 20, 22,27, 29, 30] [5, 10, 12, 14, 20] [1, 2, 3, 4, 6, 8, 17, 25, 28, 29, 31, 33]

Contamination beliefs: Ideas that social or behavioural interactions could taint the quality of breastmilk and be passed onto infants threatened EBF

Self-efficacy/confidence to breastfeed: When low, this was also a threat to EBF

Expressing: Willingness and ability to express breastmilk supported EBF

INFANT ATTRIBUTES

Temperment, especially crying: Crying was often interpreted as hunger or discomfort, leading to mixed feeding. Feeding was also used to silence crying.
Growth: Mothers used growth to identify if feeding choices were appropriate.
Health events: Conditions like oral thrush or HIV conversion led to feeding changes, usually away from EBF

MOTHER-INFANT RELATIONSHIP

Current feeding experiences: The way feeding was experienced by mothers influenced whether feeding choices were maintained or not *Practicality/ease:* How well a feeding choice was perceived to fit with lifestyle *Percieved sufficiency:* Whether mothers felt their infant was satiated by milk *Bonding/love:* Mothers feeling closer to their infants supported EBF *Breast problems:* Mastitis, engorgement, and cracked nipples hindered EBF *Food insecurity:* Mothers felt their own food insecurity contributed to insufficient milk, which led to mixed feeding

Latching: When infants struggled to latch, breastfeeding was abandoned

[3, 11, 13, 19, 20, 25, 28]

[2, 3, 11, 22]

[7, 8, 12, 31]

[3, 31]

[1, 3, 4, 7, 12, 14, 15, 19, 21, 22, 27, 30, 31, 33]

[1, 4, 5, 6, 14, 15, 19, 22, 28, 30] [3, 4, 9, 10, 11, 15]

[1, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 20, 29, 31]

[1, 3, 6, 9, 12, 20, 23, 25, 28, 29, 30, 31, 33, 34] [1, 3, 4, 5, 6, 7, 9, 10, 11, 14, 15, 20, 30, 31, 34] [3, 5, 6, 11, 12, 14, 28] [1, 3, 6, 10, 11, 12] [6, 30]

[10, 32]

SETTINGS LEVEL

HEALTH SYSTEMS AND SERVICES

Medical advice/counselling: Health workers were reported to influence feeding choices, both for or against EBF, based on their advice and the following:

(In)consistency of messages: Within-facility inconsistencies were particularly damaging to EBF, often noted between PMTCT and labour wards (In)adequate messages: Mothers often felt there were not told things that would have assisted them to make a choice or prepare for challenges EBF only: If clear, single messages supported EBF, but messages were also experienced as inconsistent with community knowledge and/or experiences

Free formula programme: This reduced EBF practices and had its own issues: Insufficient/stock-outs: Mothers using the programme reported not having enough to feed their infants and resorting to mixed feeding Brand stigma: Associations between Pelargon formula from government and HIV meant mothers tried to buy alternatives or hide brand

Mother-Baby Friendly Hospitals: These facilities were noted by mothers, often by the forceful attitudes of staff as well as pro-breastfeeding practices: *Restricting bottles or formula:* This was often described in the context of mothers hiding their feeding practices or being "forced" to change practices *Lack of separation*, where mothers were able to stay with infants helped breastfeeding, although not all MBFH's followed through *Latching support*, provided by health workers was highly appreciated

FAMILY SETTING

Family influence: Family members, particulary mothers, influence decisions. Fathers and siblings also influence. Specific influences included: *Socio-cultural:* Pressuring mothers to follow cultural/family practices of feeding or cleaning that threaten EBF *Living/caregiving arrangements:* Influenced decisions, giving family members more say over feeding practices, especially of young mothers

[1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 14, 15,17, 20, 22, 24, 25, 27, 28, 29, 31, 32, 33, 34]
[3, 4, 5, 7, 8, 9, 10, 12, 14, 15, 20, 24, 27, 29, 31, 32]
[1, 2, 3, 4, 5, 7, 10, 12, 14, 15, 17,20, 22, 24, 29, 31]
[3, 4, 5, 14, 20, 25, 29, 31, 34]

[3, 4, 5, 6, 8, 9, 12, 14, 15, 16, 19, 20, 24, 25, 28] [4, 6, 7, 8, 9, 12, 14, 15, 17,19, 24, 25]

[2, 4, 5, 10, 12, 31, 34] [2, 4, 5, 10, 12, 34] [9, 10, 31] [31, 33]

[1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 14, 15, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 29, 31, 32, 33, 34]
[2, 3, 4, 5, 6, 8, 9, 12, 14, 15, 17, 18, 20, 22, 25, 26, 31, 33]
[2, 3, 4, 8, 9, 12, 15, 17, 20, 22, 23, 25,27,28,29]

54 Table. Qualitative Meta-synthesis of themes and sub-themes	
Financial dependency: Families who financially supported mothers and	[2, 3, 6, 8, 9, 12, 14, 15, 20, 22, 23]
infants had more say over feeding practices	
Family support for HIV positive mothers: This was strongly linked to support	[2, 4, 5, 6, 7, 8, 9, 12, 15, 17, 18, 19, 20, 23, 25,26,27]
for EBF if the mothers disclosed	[2, 3, 4, 5, 6, 18, 27, 32]
Threat of violence/abandonment: These fears worked against disclosure	
WORKPLACE/SCHOOL SETTING	
Employee letters: One mother talked about trying to influence an employer to	[27]
support EBF through a letter from the clinic.	
COMMUNITY SETTING	
Gossiping/HIV stigma: This was raised as an EBF barrier, as the practice is	[3, 4, 5, 6, 7, 8, 12, 13, 14, 15, 17, 18, 24, 25, 26, 27,
linked to HIV, which mothers addressed in the following ways:	28, 29, 32, 34]
Concealment: Where mothers hid their true feeding practice to avoid stigma	[3, 8, 12, 15, 17, 24, 25, 26, 27, 29, 31, 32, 34]
Explanation: Where community is educated about importance of EBF to	[5, 12, 19]
gain support and to address/reduce HIV stigma	
Community support interventions: Several articles described these directly:	[5, 11, 12, 13]
Buddies/peers/mentor mothers: Mothers appreciated locally available	[12, 13, 19]
support to advise or encourage them in the community setting	
Postnatal support: A variety of ideas were suggested by mothers in	[5, 7, 11, 12, 22, 31]
addition to actual support through postnatal counselling, support groups and	
income generation projects.	
Milk bank/wet nurse: This was noted as a support option only once	[3]
STRUCTURAL LEVEL	
SOCIO-CULTURAL CONTEXT	
Mixed feeding norms: Expecations to mixed feed from family and community	[1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 18, 23, 25, 26,
were consistently referenced as a challenge for EBF	31, 33]
Breastfeeding norms: They expectation to breastfeed (often as part of mixed	[1, 2, 3, 4, 11, 12, 14, 15, 17, 32]
feeding) was noted by mothers across all policy periods	

Motherhood norms: Ideas of what it meant to be a good mother influenced decisions	[2, 3, 4, 5, 6, 16, 31]
HIV stigma against formula feeding, was reported widely	[2, 3, 4, 7, 8, 9, 11, 12, 14, 15, 16, 17, 19, 24, 25, 28, 29, 32]
HIV stigma towards any sort of exclusive feeding was also reported	[2, 3, 4, 5, 7, 8, 9, 14, 15, 34]
HIV stigma towards intervention, such as buddies, was another experience	[12, 13]
MARKET CONTEXT Culture of commercial formula: A few articles highlighted how use of commercial formula is perceived as a culture in South Africa, preferred above other complementary foods	[21, 22, 30]
Breastfeeding promotion: Mothers talked about how materials/campaigns promoting breastfeeding influenced their decisions, with a call for clear messages	[14, 15]
Media engagement: Mothers discussed channels they use to seek out information on infant feeding via the Internet or social media	[33, 34]